	Application No.	Applicant(s)
Notice of Allowability	10/001 000	
	10/681,032 Examiner	WEATHERALL ET AL.
	Brij B. Shrivastav	2859
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included
1. \square This communication is responsive to <u>November 10, 2006</u> .		
2. The allowed claim(s) is/are 1,4,9,11-14 and 20-37.		
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 	e been received.	
Certified copies of the priority documents have		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply IENT of this application.	complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawi he header according to 37 CFR 1.121(ngs in the front (not the back) of d).
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL I FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summary	(PTO-413),
3. ⊠ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/10/06	Paper No./Mail Da 7. ☐ Examiner's Amend	te ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. Other	
		Brij B Shrivastav Primary Examiner Art Unit: 2859

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1. Applicant's RCE has been received and entered. The pending claims in the application are 1, 4, 9, 11-14, 17 and 20-37, which are in allowable condition.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance:

As regards to claims 1 and 4, the prior art of record does not teach or suggest a method for obtaining spatial information about an object, including steps of using a plurality of measured resonant transverse magnetic modes to obtain spatial information about positions of the measured transverse magnetic modes comprising using a Fourier Bessel transform, in combination with the remaining limitations of the claims.

As regards to claims 9 and 11-14, the prior art of record does not teach or suggest a method for measuring the dielectric constant of an object, including steps of using the plurality of measured resonant transverse magnetic modes and the spatial information to obtain the dielectric constant information and dielectric constant for the object, in combination with the remaining limitations of the claims.

Claims 17 and 20-37 are allowed, as the prior art of record does not teach or suggest an apparatus for measuring the dielectric constant of an object, including a cavity having a height h and a radius R, and ratio of the height h and the radius R is selected to cause the resonant frequencies to be distinct from one another, in combination with the remaining limitations of the claims.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brij B. Shrivastav whose telephone number is 571-272-2250. The examiner can normally be reached on 7 AM to 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F. F. Gutierrez can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 1**%**, 2007

Brij 🛭 Shrivasta

Examiner

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